Low pretilt angle polyamic acid alignment materials

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Abstract of **TW 473497 (B)**

A polyamic acid liquid crystal alignment materials comprises of aromatic tetracarboxylic acid derivatives which are polymerized by a non-polar aromatic dianhydride and selected diamines. The claimed liquid crystal alignment materials applying to liquid crystal device show excellent coating property, adhesion property and stability. The liquid crystal cell assembling by coating and heat curing of the claimed polyamic acid alignment materials, converted into cyclized polyimide alingment layer shows a pretilt angle value less than 2 degrees. The liquid crystal cells performing low pretilt angle property are applied in high duty twisted nematic (TN) liquid crystal display devices.